

Field Research Facility

Daniel A. Freer

Wilmington Quarterly Service trip Report

03-03-03 thru 03-04-03

**03-03** Finished prepping gage 1506 for EL. Loaded truck and car

Drove POV to Southport.

**03-04 Agenda:** Dive boat to OK to bring us a gage to service on shore. While dive boat is getting OK shore team worked on EL replacement gage; compass cal, mount in frame, tested pressure gage, reads normal. Dive boat returned to drop off OK (10J:00) and then went to recover BH. Shore team off loaded OK data and serviced gage; cleaned, put new screw in pressure port, tested batteries (41.21VDC) still good not replaced, installed 512 and 224 MB memory cards, did compass cal.

Dive boat returns with BH gage about 12:30, picks up EL gage and OK gage for redeployment.

Shore team off loads data and services BH gage. Again battery voltage is 43.42 so batteries not replaced. New Screw in cleaned pressure port, installed 512 and 256MB memory cards, did compass cal.

Dive boat returns with EL gage about 16:00, picks up serviced BH gage and heads to BH for redeployment.

Andy goes to BH to check out shore station problem. From there he loads configuration and starts OK remotely. Also gets BH shore station up and running and configures gage and starts collection remotely from shore station.

Dan cleans returning EL, downloads data

Dive boat returns to dock about 17:30

About 8PM Andy and Dan exchange data backups and text files at hotel

Suspense Item: Length of deployments

I put lots of memory in all the gages so they will last as follows. Also the Wavesplan battery useage calculation doesn't seem to be correct in that we are consistently getting batteries back with less that half drainage after 90 days deployment at EL. This service the recovered batteries were at 38.90VDC. For this deployment starting 4 March 2003:

Memory stop for EL is now 295 days and Battery stop is 225 days

Memory stop for OK and BH is now 170 days and battery stop is 107 days however, since BH and OK are shore powered the battery stop date isn't applicable unless the shore power goes out.

Pictures from the recovery show Biofouling to be minimal due to colder water and good antifouling practices.

The next service date on the 90 day schedule will be June 2<sup>nd</sup>.